

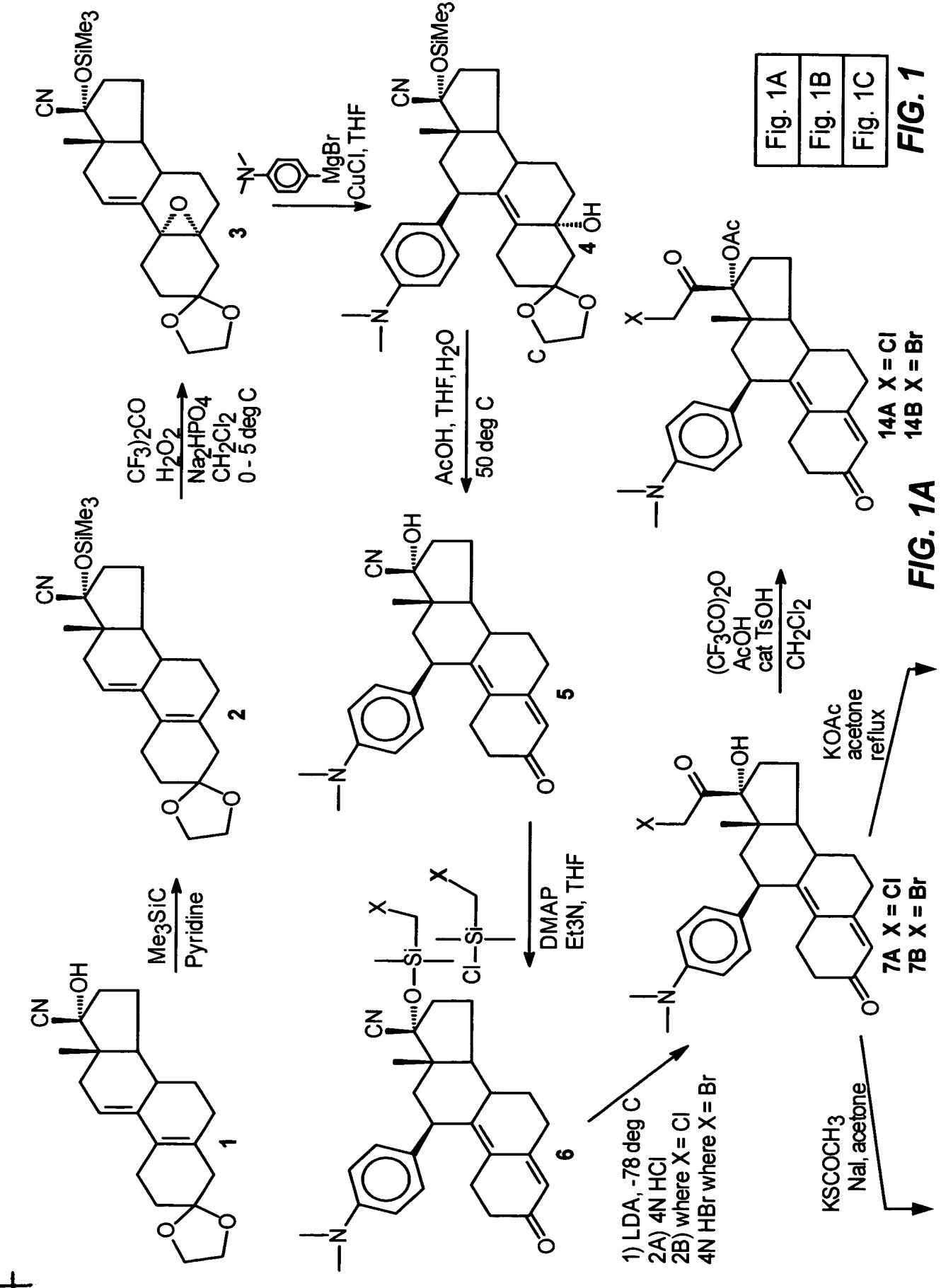


Application No.: 09/526,855

Applicants: Hyun K. Kim et al.

Title: STRUCTURAL MODIFICATION OF 19-NORPROGESTERONE I: 17-ALPHA-SUBSTITUTED-11-BETA-SUBSTITUTED-4-ARYL AND 21-SUBSTITUTED 19-NORPREGNADIENEDIONE AS NEW ANTIPOGESTATIONAL AGENT

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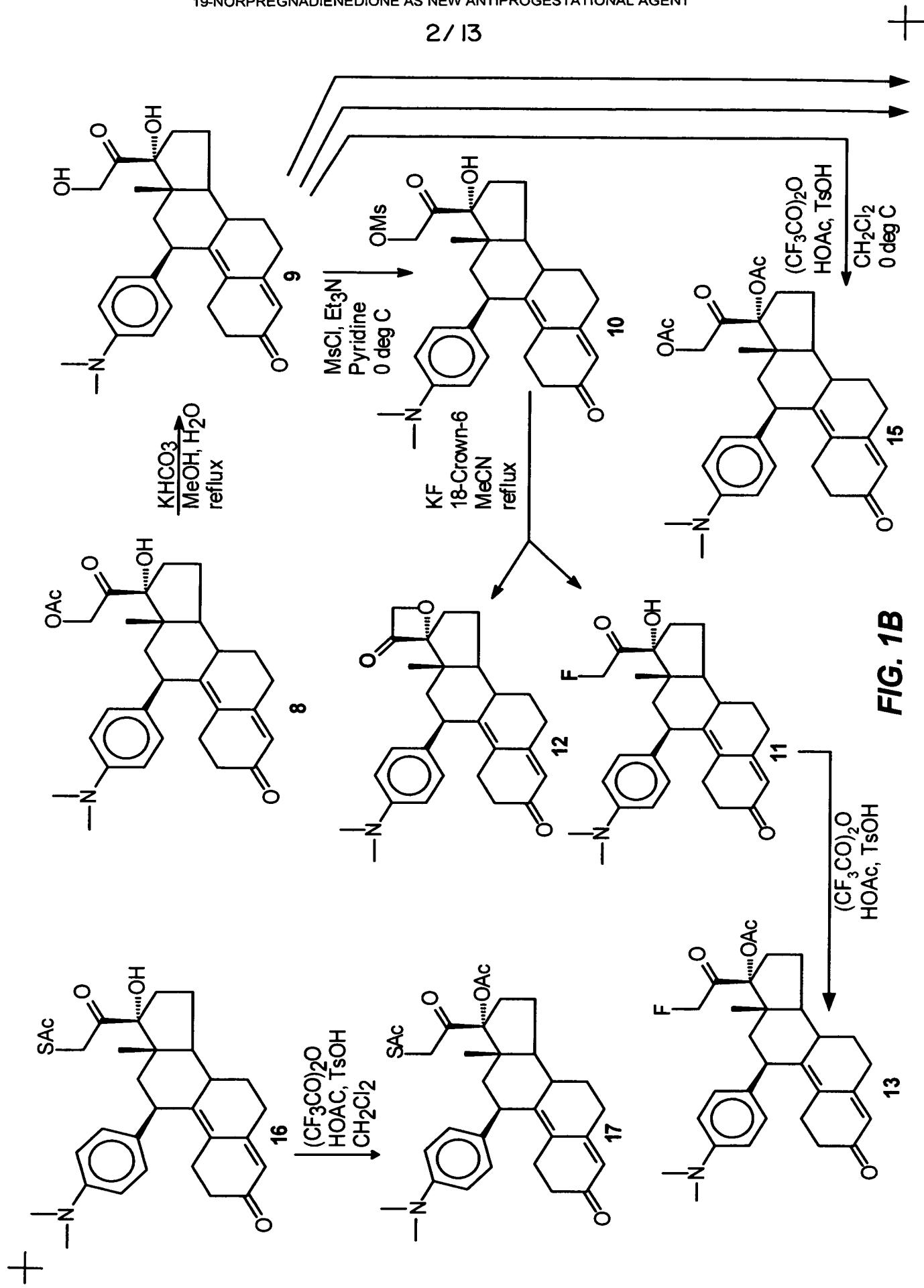
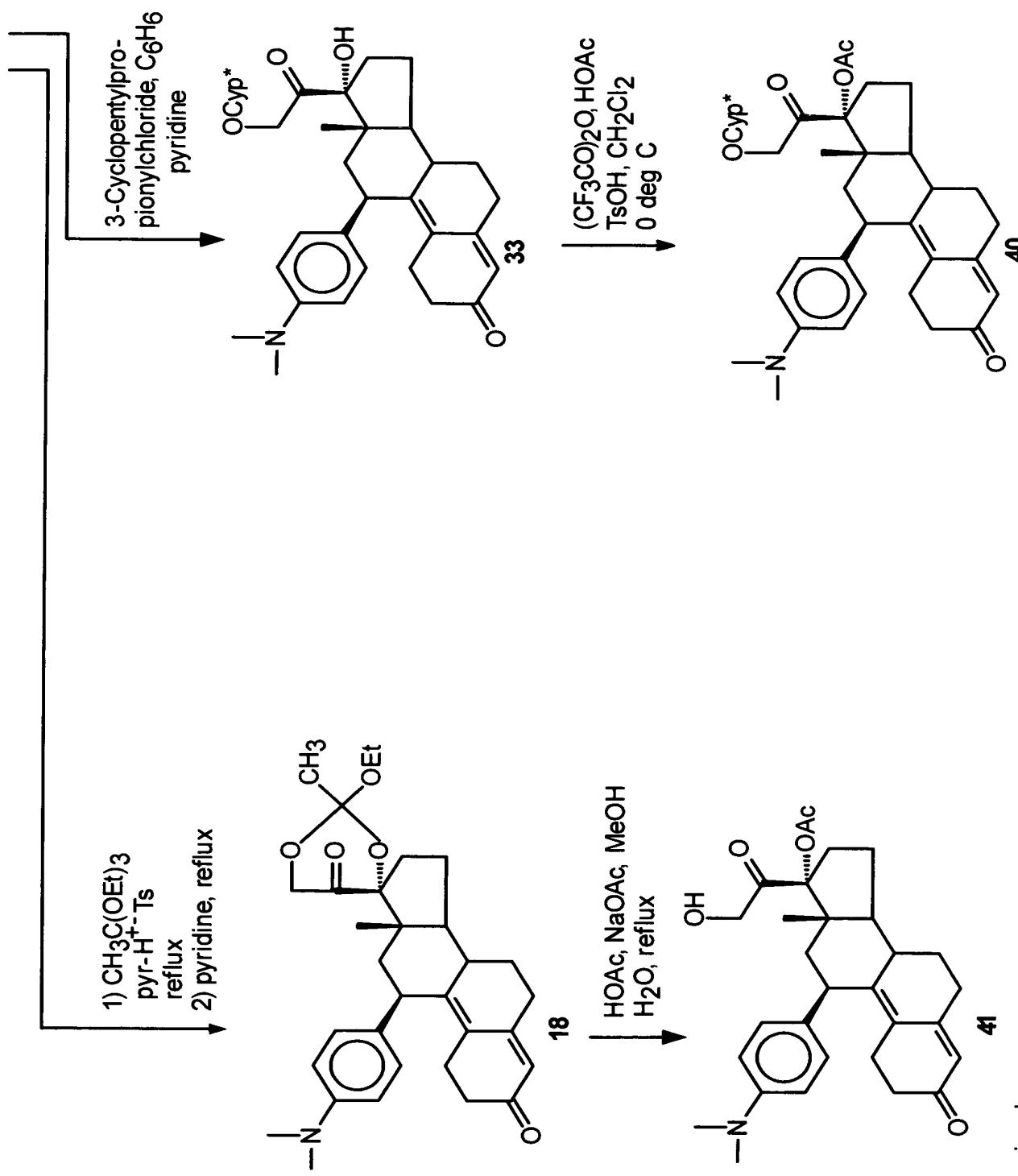


FIG. 1B

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* Cyp = 3-Cyclopentylopropionyl-

FIG. 1C

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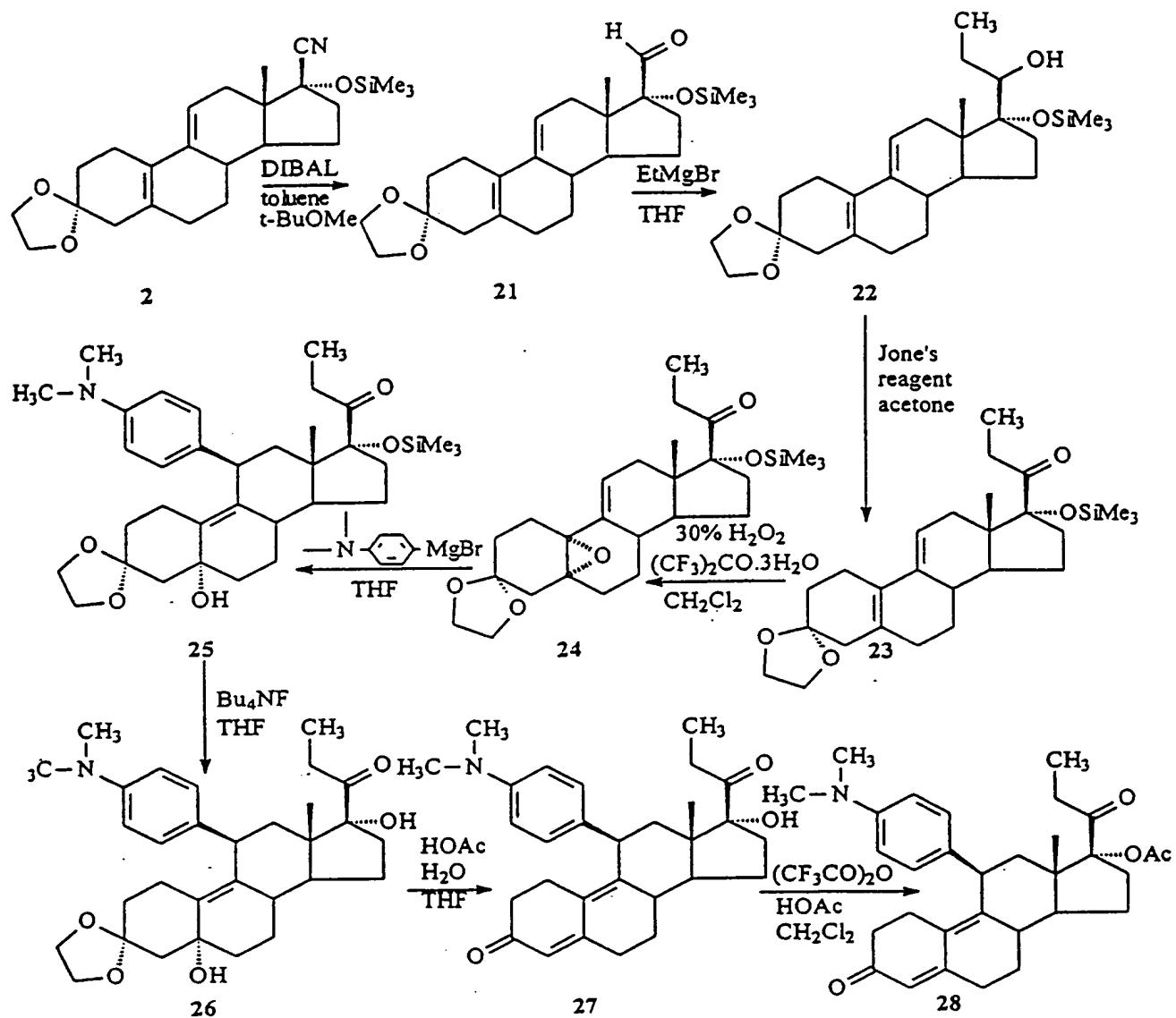


FIGURE 2

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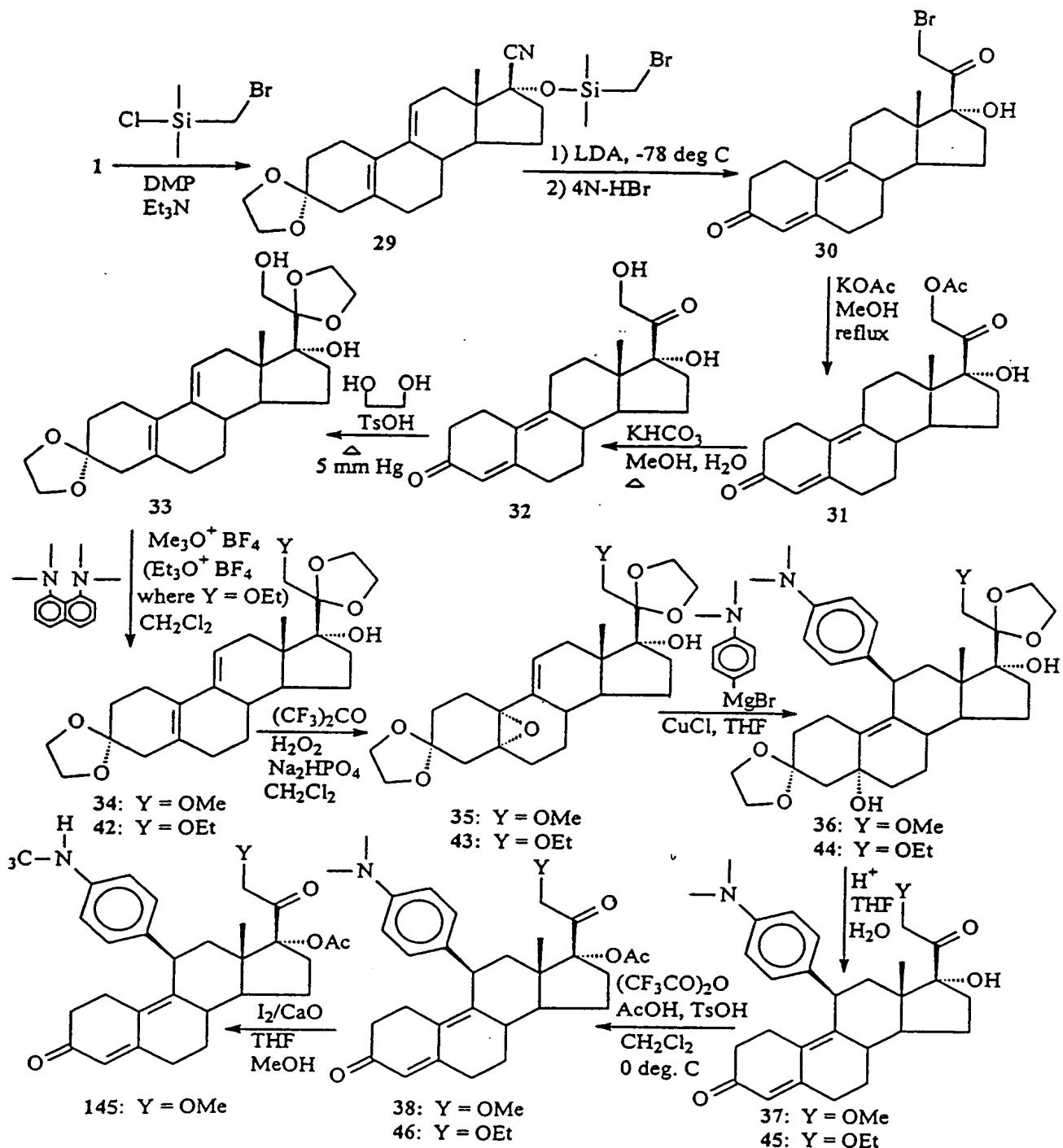


FIGURE 3

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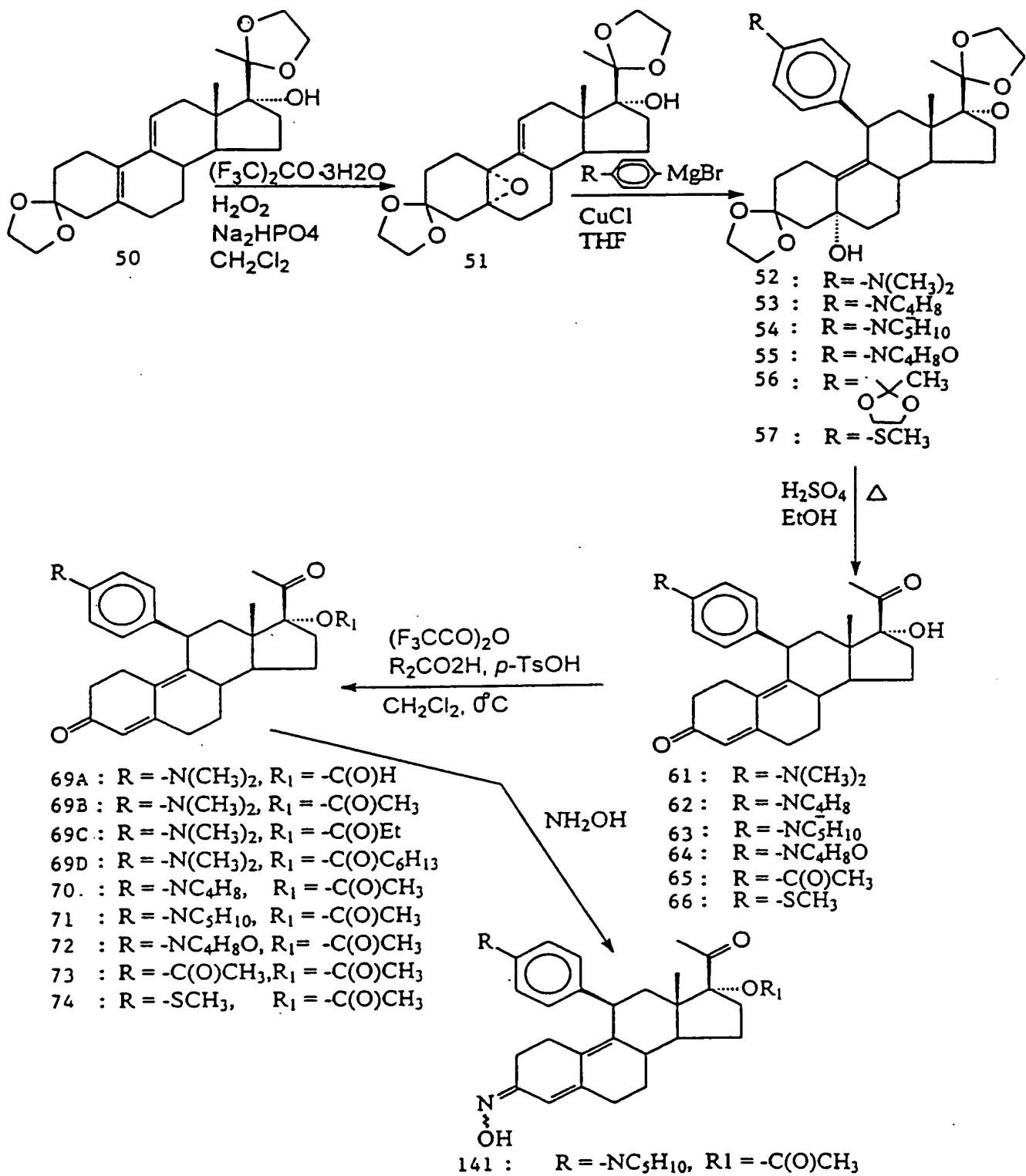
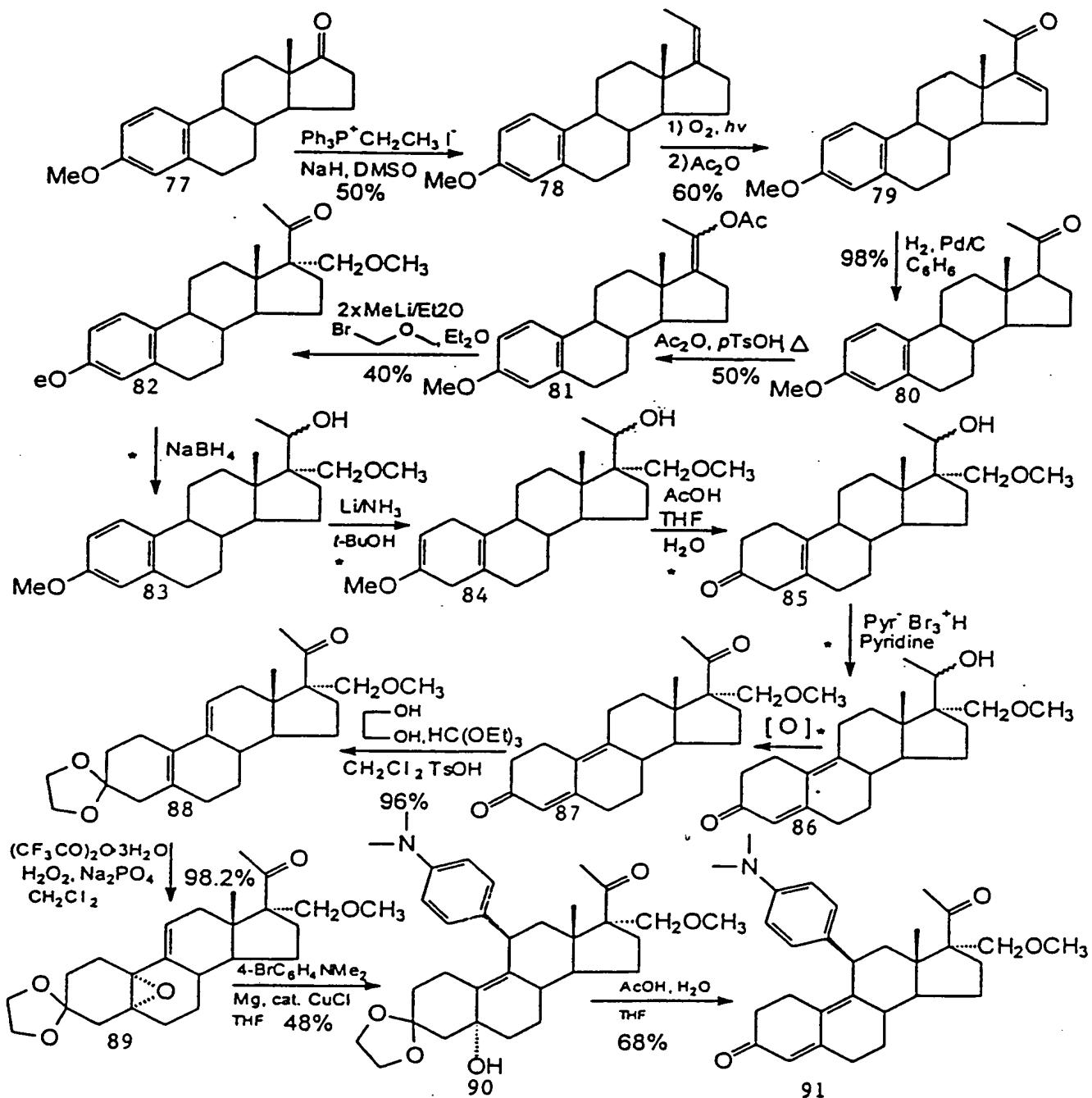


Figure 4

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* Yield from 83 to 86 is 37%

Figure 5

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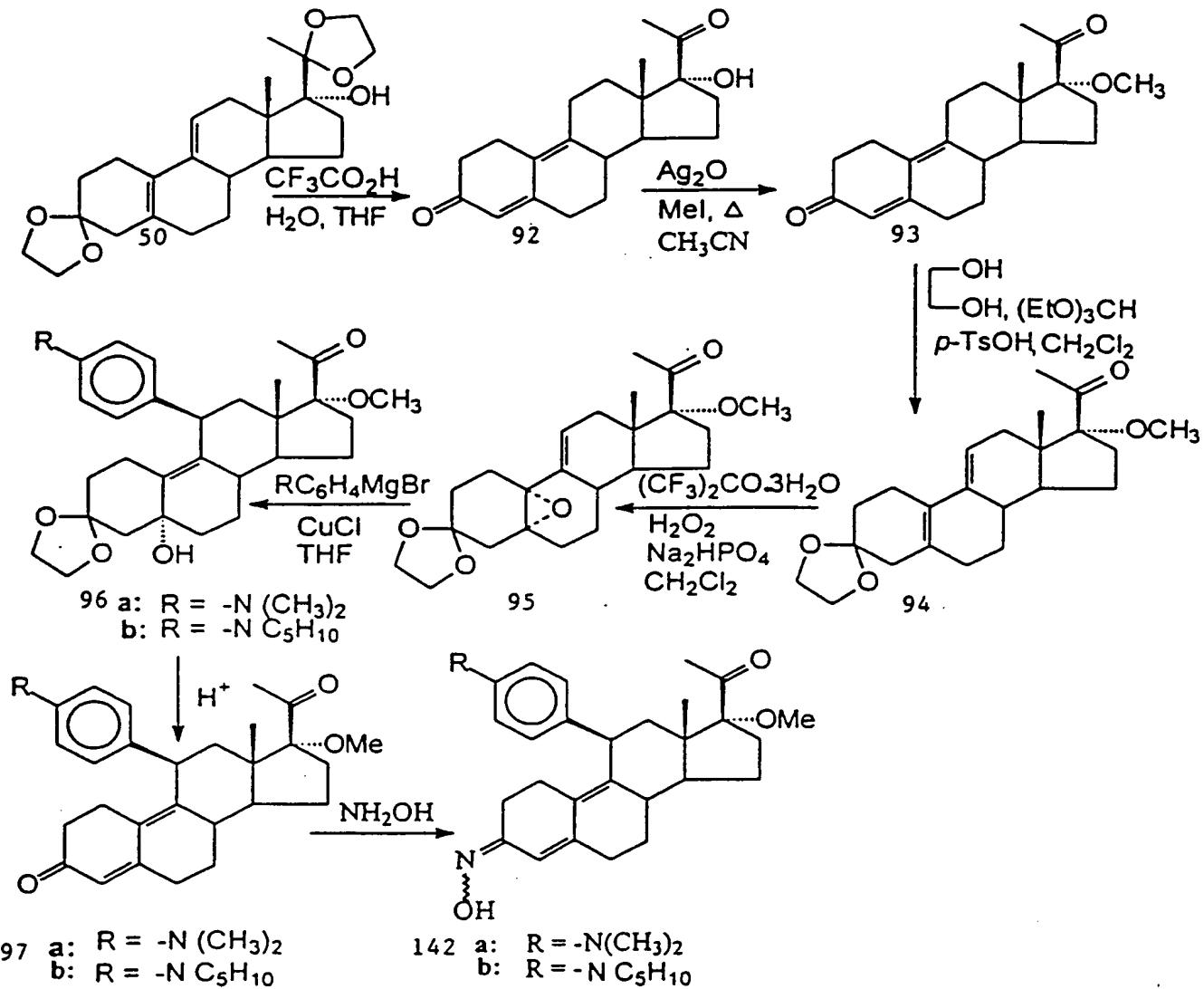


Figure 6

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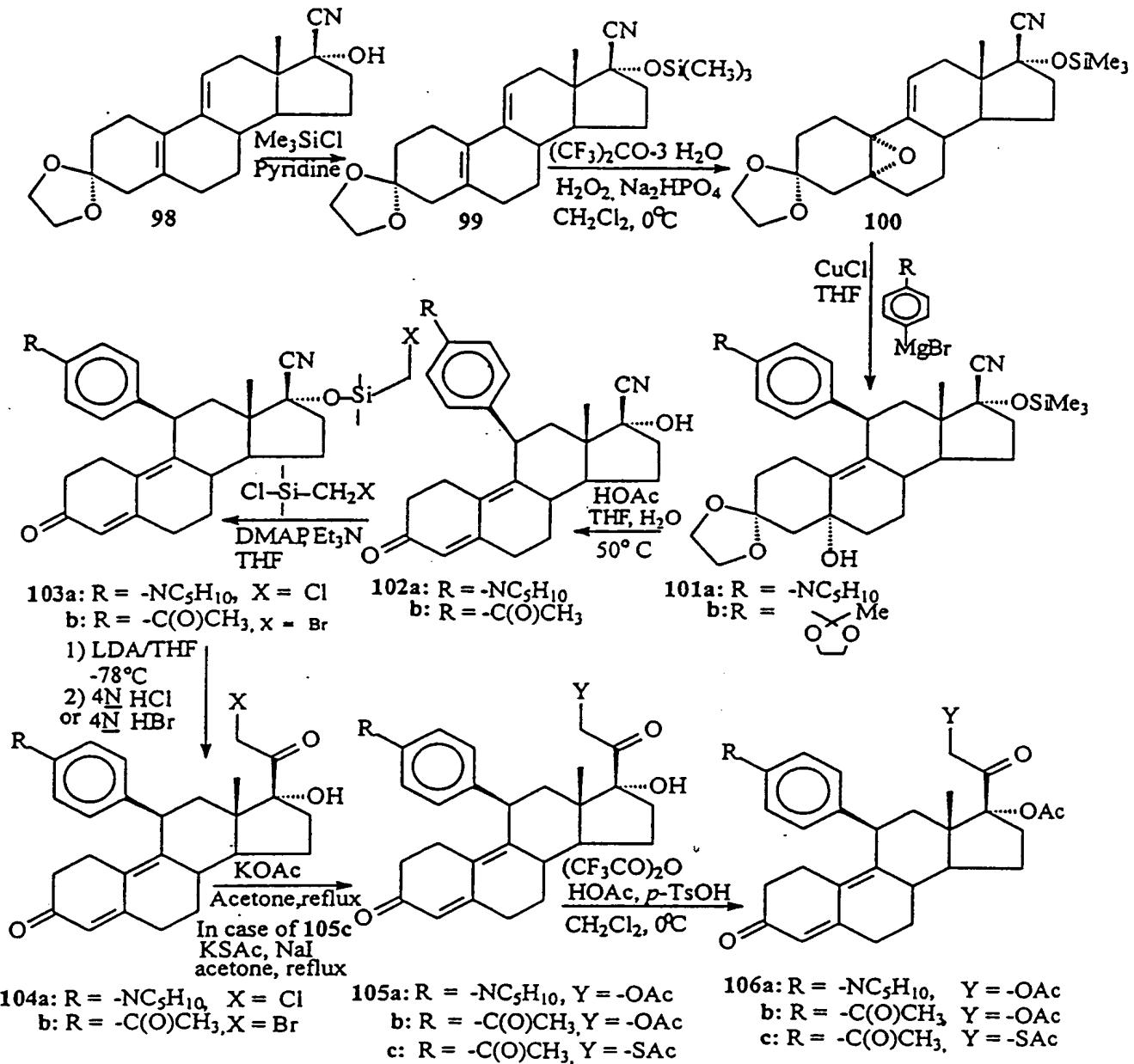


Figure 7

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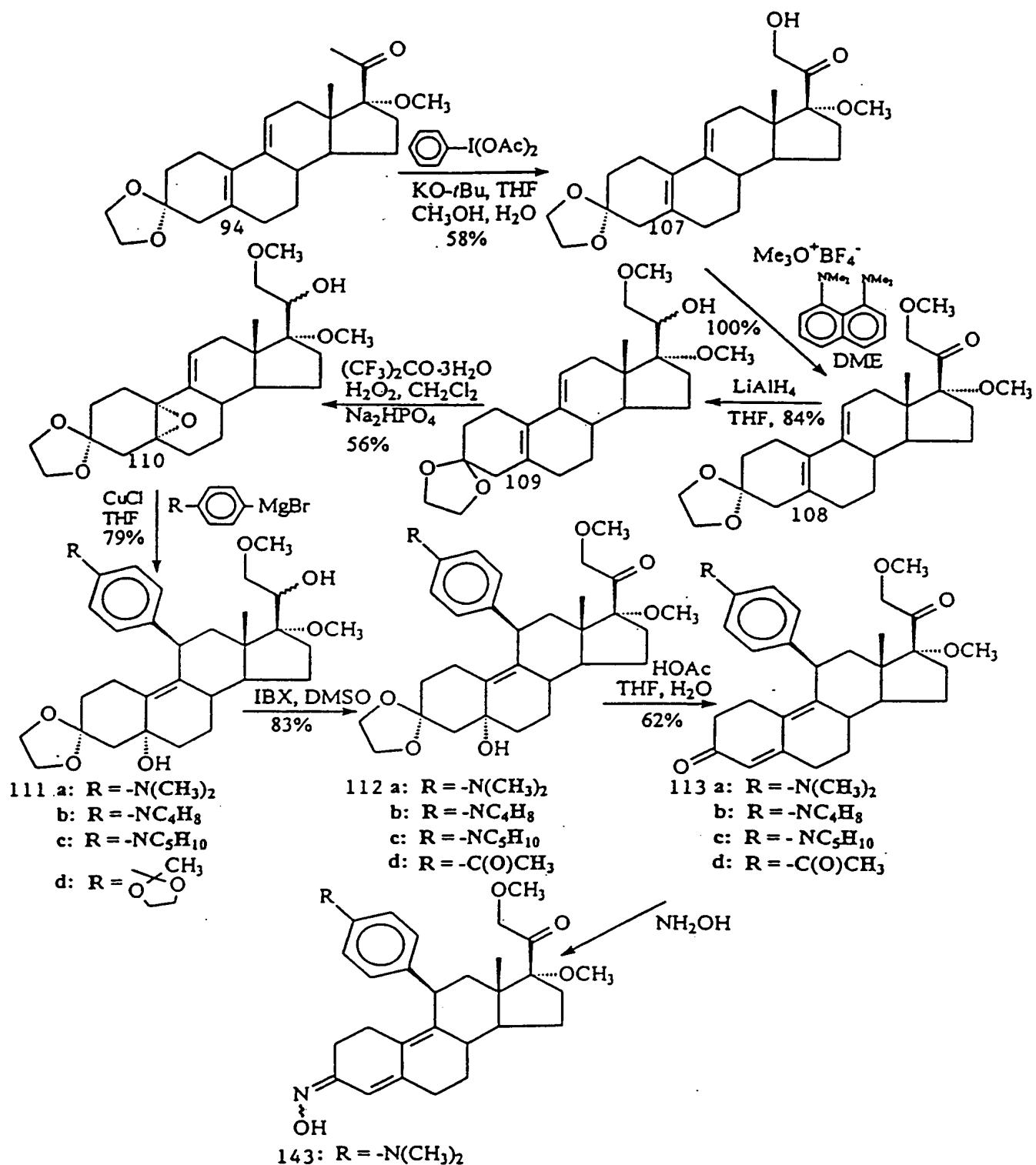


Figure 8

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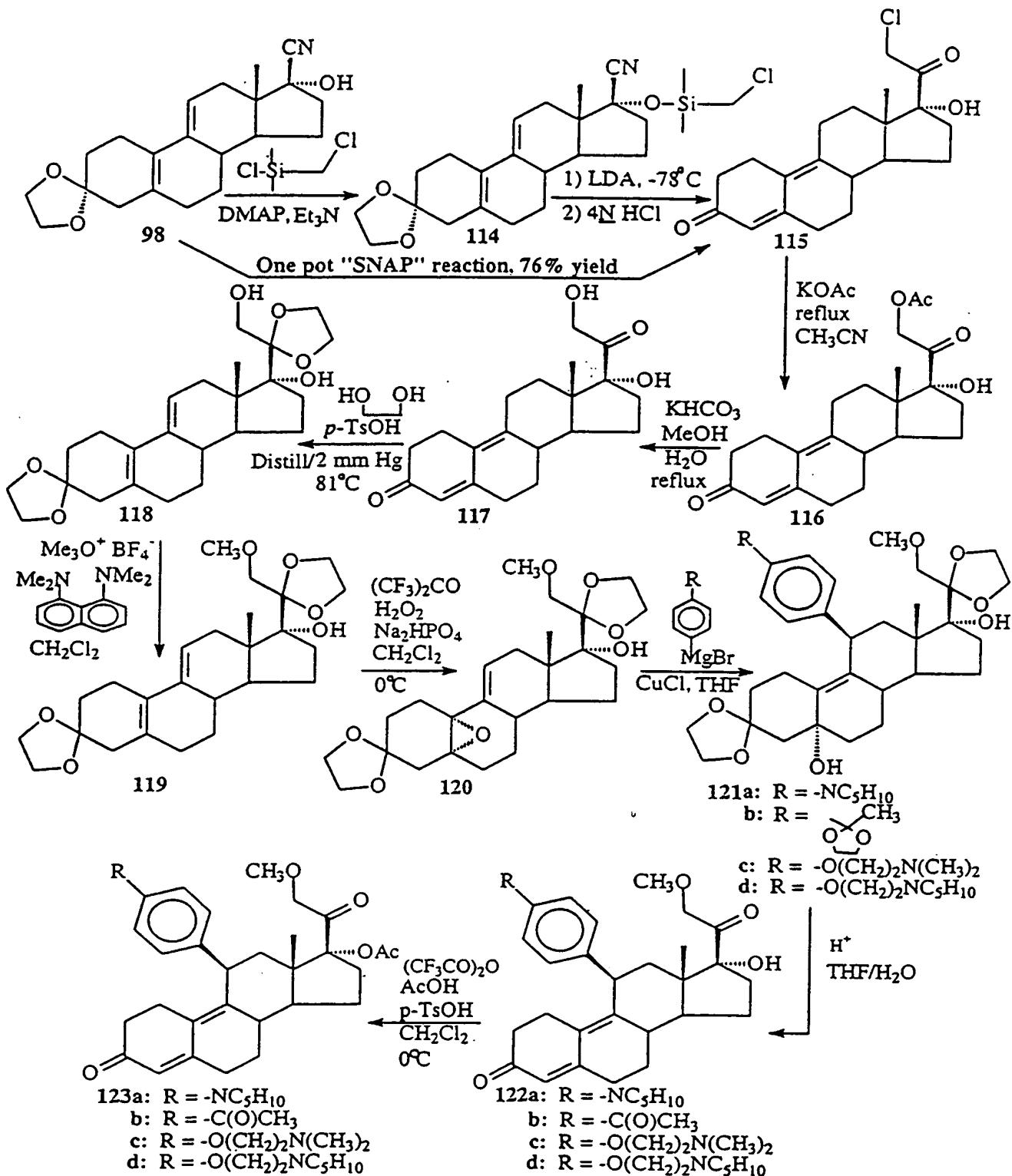


Figure 9

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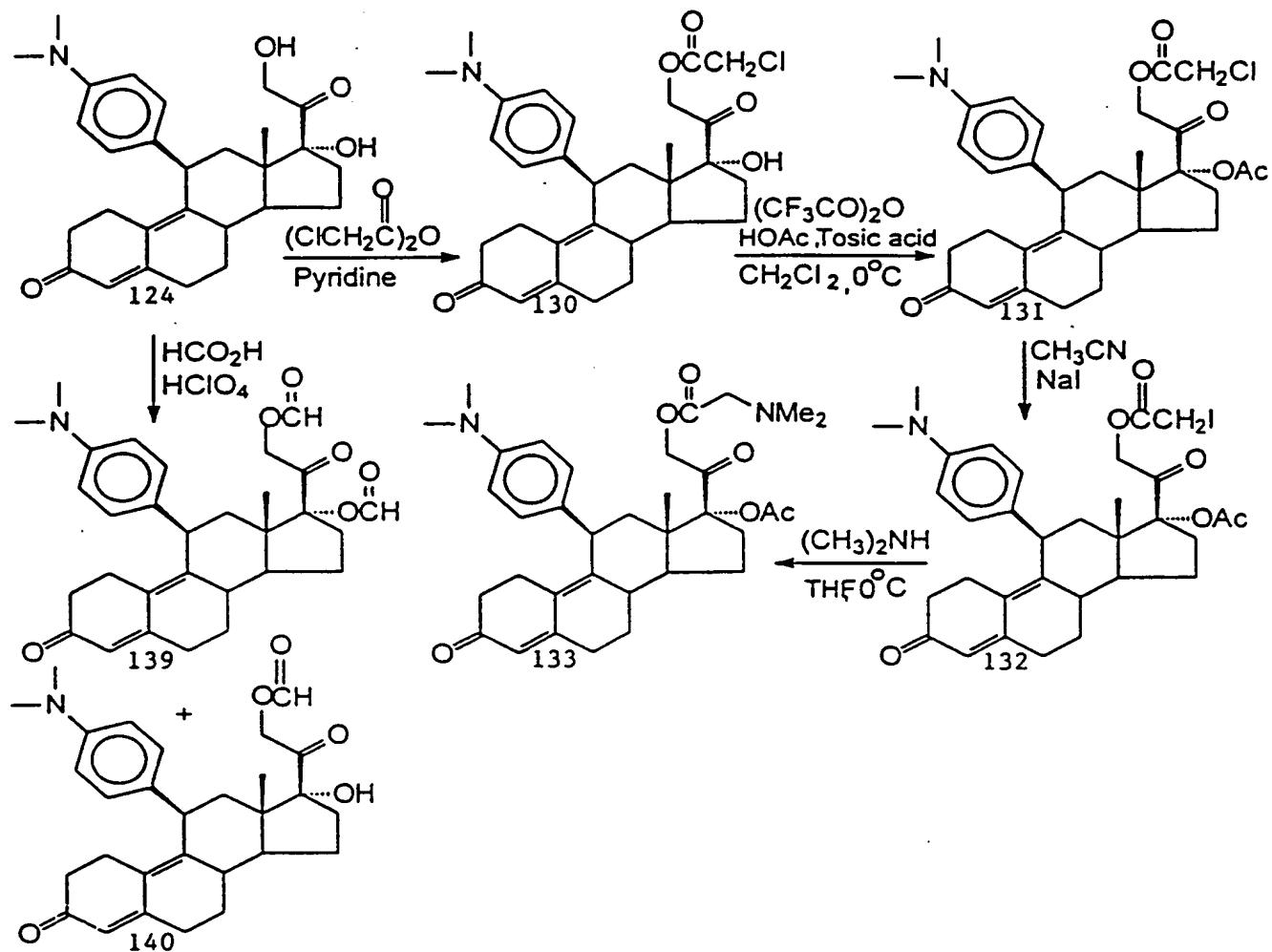


Figure 10

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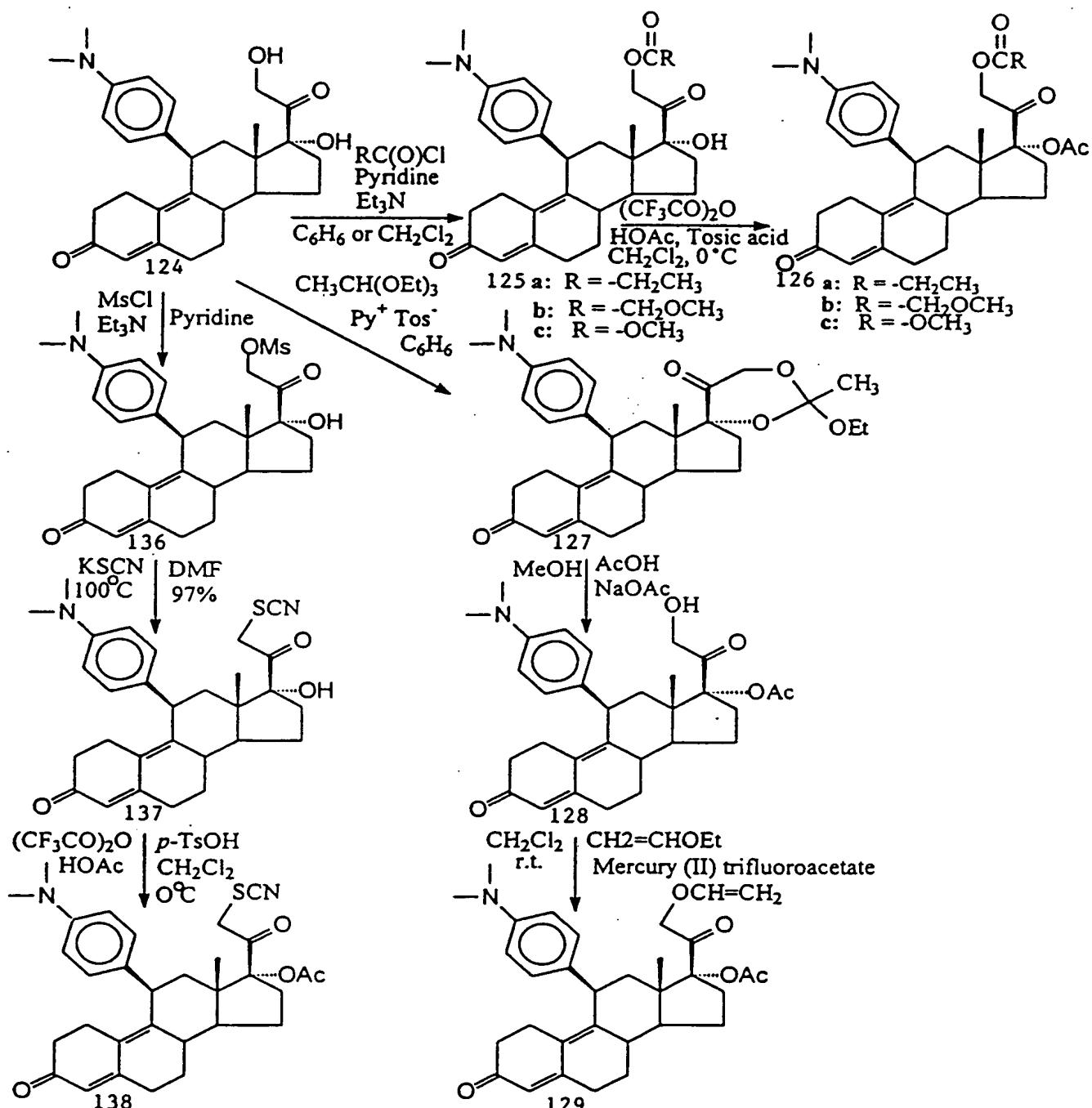


Figure 11